

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 02-763-B (400/129)	Serial No. 10/667,271
<p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>			
<p>Applicant: McSwiggen et al.</p>			
<p>Filing Date: September 16, 2003</p>		<p>Group: 1632</p>	

U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
AB	*	09/301,511	04/28/99	Beigleman et al.			
	*	09/740,332	12/18/00	Blatt et al.			
	*	09/800,594	03/06/01	Usman and McSwiggen			
	*	10/151,116	05/17/02	Matulic-Adamic et al.			
	*	10/201,394	08/13/01	Vargeese et al.			
	*	10/417,012	04/16/03	McSwiggen et al.			
	*	10/422,704	04/24/03	McSwiggen et al.			
	*	10/427,160	04/30/03	Vargeese et al.			
	*	10/444,853	05/23/03	McSwiggen et al.			
	*	10/652,791	08/29/03	McSwiggen et al.			
	*	10/693,059	10/23/03	McSwiggen et al.			
	*	10/720,448	11/24/03	McSwiggen et al.			
	*	10/727,780	12/03/03	Vaish et al.			
	*	10/757,803	01/14/04	McSwiggen et al.			
	*	10/780,447	02/13/04	Vargeese et al.			
▼	*	10/826,966	04/16/04	McSwiggen et al.			

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AB	*	60/082,404	04/20/98	Thompson et al.			
	1.	60/292,217	05/18/01	Adamic et al.			
	2.	60/306,883	07/20/01	Vargeese et al.			
	3.	60/311,865	08/13/01	Vargeese et al.			
	*	60/358,580	02/20/02	Beigelman et al.			
	*	60/362,016	03/06/02	Matulic-Adamic et al.			
	*	60/363,124	03/11/02	Beigelman et al.			
	4.	60/386,782	08/05/02	Beigelman et al.			
	5.	60/401,104	08/05/02	McSwiggen et al.			
	*	60/402,996	08/13/02	Usman et al.			
	*	60/406,784	08/29/02	Beigelman et al.			
	*	60/408,378	09/05/02	Beigelman et al.			
	*	60/409,293	09/09/02	Beigelman et al.			
	*	60/440,129	01/15/03	Beigelman et al.			
	*	60/543,480	02/10/04	Jadhati et al.			
	*	US 2001/0007666	01/05/99	Hoffman et al.			
	*	US 2001/0007666	01/05/99	Hoffman et al.			07/12/01
	*	US 2002/0130430	12/29/00	Caster			09/19/02
↓	*	US 2002/0137210	08/09/01	Churikov			09/26/02

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AB	*	US 2003/0077829	04/30/02	MacLachlan			04/24/03
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
AB	*	4,987,071	01/22/91	Cech et al.			
	*	5,108,921	04/28/92	Low et al.			
	*	5,138,045	08/11/92	Vargeese et al.			
	*	5,214,136	05/25/93	Lin et al.			
	*	5,334,711	08/02/94	Sproat			
	*	5,416,016	05/16/95	Low et al.			
	*	5,589,332	12/31/96	Shih et al.			
	*	5,624,803	04/29/97	Noonberg et al.			
	*	5,627,053	05/06/97	Usman et al.			
	*	5,631,359	05/20/97	Chowrira et al.			
	*	5,631,360	05/20/97	Usman et al.			
	*	5,633,133	05/27/97	Long et al.			
	*	5,633,133	05/27/97	Long et al.			
V	*	5,670,633	09/23/97	Cook et al.			

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AB	*	5,672,695	09/30/97	Eckstein et al.			
	*	5,716,824	02/10/98	Beigelman et al.			
	*	5,741,679	04/21/98	George et al.			
	*	5,792,847	08/11/98	Buhr et al.			
	*	5,804,683	09/08/98	Usman et al.			
	*	5,814,620	09/29/98	Robinson et al.			
	*	5,831,071	11/03/98	Usman et al.			
	*	5,834,186	11/10/98	George et al.			
	*	5,849,902	12/15/98	Arrow et al.			
	*	5,854,038	12/29/98	Cech et al.			
	*	5,871,914	02/16/99	Nathan et al.			
	*	5,874,565	02/23/99	Rice et al.			
	*	5,889,136	03/30/99	Scaringe et al.			
	*	5,898,031	04/27/99	Crooke			
	*	5,902,880	05/11/99	Thompson et al.			
	*	5,968,909	10/19/99	Agrawal et al.			
	*	5,989,912	11/23/99	Arrow et al.			
	*	5,998,203	12/07/99	Adamic et al.			
▼	*	6,001,311	12/14/99	Brennan			

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AB	*	6,005,087	12/21/99	Cook et al.			
	*	6,008,400	12/28/99	Scaringe et al.			
	*	6,054,576	04/25/00	Bellon et al.			
	*	6,107,094	08/22/00	Crooke			
	*	6,111,086	08/29/00	Scaringe et al.			
	*	6,117,657	09/12/00	Usman et al.			
	*	6,127,116	10/03/00	Rice et al.			
	*	6,146,886	11/14/00	Thompson			
	*	6,153,737	11/28/00	Manoharan et al.			
	*	6,162,909	12/19/00	Bellon et al.			
	*	6,168,778	01/02/01	Janjic et al.			
	*	6,180,613	01/30/01	Kaplitt et al.			
	*	6,235,310	05/22/01	Wang et al.			
	*	6,235,886	05/22/01	Manoharan et al.			
	*	6,248,878	06/19/01	Adamic et al.			
	*	6,300,074	10/09/01	Gold			
	*	6,303,773	10/16/01	Bellon et al.			
	*	6,335,434	01/01/02	Guzaev et al.			
▼	*	6,350,934	02/26/02	Zwick et al.			

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AB	*	6,353,098	03/05/02	Usman et al.			
	*	6,362,323	03/26/02	Usman et al.			
	*	6,395,492	05/28/02	Manoharan et al.			
	*	6,395,713	05/28/02	Beigelman et al.			
	*	6,437,117	08/20/02	Usman et al.			
	*	6,447,796	09/10/02	Vook et al.			
	*	6,469,158	10/22/02	Usman et al.			
	*	6,476,205	11/05/02	Buhr et al.			
	*	6,506,559	06/14/03	Fire et al.			
	*	6,528,631	03/04/03	Cook et al.			
	*	6,586,524	07/01/03	Sagara			
↓	*	6,617,156	09/09/03	Doucette-Stam et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
AB		2001240375 (Old Application No. 40375/01)	03/16/01	AU (Graham et al.)				

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AB	*	2,359,180	08/03/00	CA (Kreutzer et al.)				
XVII-13	6.	0 360 257	02/28/90	EP (Hampel et al.)				
	*	1144623 B1	01/29/02	EP (Kreutzer et al.)				
	7.	88/09810	12/15/88	WO (Tullis et al.)				
	*	89/02439	03/23/89	WO (Arnold et al.)				
	8.	90/12096	10/18/90	WO (Low et al.)				
	9.	90/14090	11/29/90	WO (Gillespie et al.)				
	*	91/03162	03/21/91	WO (Rossi et al.)				
	*	92/07065	04/30/92	WO (Eckstein et al.)				
	*	93/15187	08/05/93	WO (Usman et al.)				
	*	93/23569	11/25/93	WO (Draper et al.)				
	10.	94/01550	01/20/94	WO (Agrawal et al.)				
	*	94/02595	02/03/94	WO (Sullivan et al.)				
	*	95/06731	03/09/95	WO (Usman et al.)				
	11.	95/11304	04/27/95	WO (Usman et al.)				
	*	95/11910	05/04/95	WO (Dudycz et al.)				
	*	96/10390	04/11/96	WO (Ansell et al.)				
	*	96/10391	04/11/96	WO (Choi et al.)				
V	*	96/10392	04/11/96	WO (Holland et al.)				

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AB	12.	96/18736	06/20/96	WO (Beigelman et al.)				
	13.	96/22689	08/01/96	WO (Pyle et al.)				
	*	97/26270	07/24/97	WO (Beigelman et al.)				
	*	98/13526	04/02/98	WO (Woolf et al.)				
	14.	98/27104	06/25/98	WO (Breaker et al.)				
	15.	98/28317	07/02/98	WO (Matulic-Adamic et al.)				
	16.	98/43993	10/08/98	WO (Breaker et al.)				
	17.	98/58058	12/23/98	WO (Ludwig & Sproat)				
	*	99/04819	02/04/99	WO (Klimuk)				
	*	99/05094	02/04/99	WO (Beigelman et al.)				
	*	99/07409	02/18/99	WO (Deschamps de Paillette et al.)				
	*	99/14226	03/25/99	WO (Wengel et al.)				
	18.	99/16307	04/08/99	WO (Vierling)				
	19.	99/16871	04/08/99	WO (Eckstein et al.)				
	20.	99/17120	04/08/99	WO (Davis and Bishop)				
	21.	99/29842	06/17/99	WO (Sullenger et al.)				
	*	99/31262	06/24/99	WO (Barry et al.)				
	*	99/32619	07/01/99	WO (Fire et al.)				
V	*	99/49029	09/30/99	WO (Graham et al.)				

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AB	*	99/53050	10/21/99	WO (Waterhouse et al.)				
	*	99/54459	10/28/99	WO (Thompson et al.)				
	22.	99/55857	11/04/99	WO (Beigelman et al.)				
	*	99/61631	12/02/99	Heifetz et al.				
	23.	99/66063	12/23/99	WO (Manoharan et al.)				
	*	00/01846	01/13/00	WO (Plaetinck et al.)				
	24.	00/03683	01/27/00	WO (Boey et al.)				
	*	00/17369	03/30/00	WO (Gurney et al.)				
	25.	00/24931	05/04/00	WO (Nathan and Ellington)				
	26.	00/26226	05/11/00	WO (Breaker et al.)				
	*	00/44895	08/03/00	WO (Kreutzer et al.)				
	*	00/44914	08/03/00	WO (Li et al.)				
	27.	00/49035	08/24/00	WO (Sheen)				
	*	00/53722	09/14/00	WO (O'Hare and Normand)				
	*	00/63364	10/26/00	WO (Pachuk et al.)				
	*	00/66604	11/09/00	WO (Wengel et al.)				
	*	01/04313	01/18/01	WO (Satischchandran et al.)				
	*	01/29058	04/26/01	WO (Mello et al.)				
V	*	01/36646	05/25/01	WO (Zernicka-Goetz et al.)				

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AB	*	01/38551	05/31/01	WO (Grossniklaus)				
	*	01/42443	06/14/01	WO (Churikov et al.)				
	*	01/49844	07/12/01	WO (Driscoll et al.)				
	*	01/53475	07/26/01	WO (Cogoni et al.)				
	*	01/68836	09/20/01	WO (Beach et al.)				
	*	01/70944	09/27/01	WO (Honer et al.)				
	*	01/70949	09/27/01	WO (Graham et al.)				
	*	01/72774	10/04/01	WO (Deak et al.)				
	*	01/75164	10/11/01	WO (Tuschl et al.)				
	*	01/92513	12/06/01	WO (Arndt et al.)				
	28.	01/96584	12/20/01	WO (Mushegian et al.)				
	*	02/22636	03/21/02	WO (Bennett et al.)				
	*	02/38805	05/16/02	WO (Echeverri et al.)				
	*	02/44321	06/06/02	WO (Tuschl et al.)				
	*	02/055692	07/18/02	WO (Kreutzer et al.)				
	*	02/055693	07/18/02	WO (Kreutzer et al.)				
	29.	02/081494 (PCT/US02/09187)	03/26/02	WO (Beigelman et al.)				
	30.	02/087541	11/07/02	WO (MacLachlan)				
▼	*	02/094185 (PCT/US02/15876)	01/28/02	WO (Beigelman et al.)				

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AB	31.	03/024420	03/27/03	WO (Ahlheim et al.)				
	32.	03/046185	06/05/03	WO (Wang et al.)				
	33.	03/047518	06/12/03	WO (Wang et al.)				
	*	03/064625	08/07/03	WO (Woolf et al.)				
	*	03/064626	08/07/03	WO (Woolf et al.)				
	34.	03/070750 (PCT/US03/05043)	08/28/03	WO (McSwiggen et al.)				
	*	03/070918 (PCT/US03/05346)	08/28/03	WO (McSwiggen et al.)				
	*	03/074654 (PCT/US03/05028)	09/12/03	WO (McSwiggen et al.)				
	*	04/013280	02/12/04	WO (Davidson et al.)				
	35.	PCT/US04/13456	04/30/04	Vargeese et al.				
▼	36.	PCT/US04/16390	05/24/04	McSwiggen et al.				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

AB	37.	Abramovitz et al., "Catalytic Role of 2'-Hydroxyl Groups Within a Group II Intron Active Site," <u>Science</u> 271:1410-1413 (1996)
AB	*	Adah et al., "Chemistry and Biochemistry of 2',5'-Oligoadenylate-Based Antisense Strategy," <u>Current Medicinal Chemistry</u> , 8, 1189-1212 (2001)
AB	*	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," <u>Trends Cell Biol.</u> 2:139-144 (1992)

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AB	*	Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <i>Nucleic Acids Research</i> 26:4910-4916 (1998)
	*	Allshire, "RNAi and Heterochromatin - A Hushed-up Affair," <i>Science</i> 297:1818-1819 (2002)
	38.	Alter, "Chronic Consequences of Non-A, Non-B Hepatitis," <i>Current Perspectives in Hepatology</i> , pp. 83-89 (1989)
	*	Andrews and Faller, "A rapid micropreparation technique for extraction of DNA-binding proteins from limiting numbers of mammalian cells," <i>Nucleic Acids Research</i> 19:2499 (1991)
	39.	Antopolksy et al., "Peptide-Oligonucleotide Phosphorothioate Conjugates with Membrane Translocation and Nuclear Localization Properties," <i>Bioconjugate Chem.</i> 10:598-606 (1999)
	40.	Arap et al., "Cancer Treatment by Targeted Drug Delivery to Tumor Vasculature in a Mouse Model," <i>Science</i> 279:377-380 (1998)
	*	Baenziger and Fiete, "Galactose and N-Acetylgalactosamine-Specific Endocytosis of Glycopeptides by Isolated Rat Hepatocytes," <i>Cell</i> 22:611-620 (1980)
	*	Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <i>Molecular and Cellular Biology</i> , 274-283 (1999)
	41.	Banerjee and Turner, "The Time Dependence of Chemical Modification Reveals Slow Steps in the Folding of a Group I Ribozyme," <i>Biochemistry</i> 34:6504-6512 (1995)
↓	*	Bannai et al., "Effect of Injection of Antisense of Oligodeoxynucleotides of GAD Isozymes into Rat Ventromedial Hypothalamus on Food Intake and Locomotor Activity," <i>Brain Research</i> 784:305-315 (1998)

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	135.	GenBank Accession No. AF064490.1
	136.	GenBank Accession No. AF082503.1
	*	GenBank Accession No. AF100308.1
	137.	GenBank Accession No. AF139594.1
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	142.	GenBank Accession No. AF165049.1
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✓	150.	GenBank Accession No. AF165057.1

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AB	151.	GenBank Accession No. AF165058.1
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✓	176.	GenBank Accession No. AF207760.1
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AB	178.	GenBank Accession No. AF207762.1
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✓	204.	GenBank Accession No. AF483269.1

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	228.	GenBank Accession No. D00944.1
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10/667,271INFORMATION DISCLOSURE
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(Use several sheets if necessary)

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McSwiggen et al.

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AB	230.	GenBank Accession No. D10750.1
	231.	GenBank Accession No. D10934.1
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	276.	GenBank Accession No. M96362.1

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	278.	Genbank Accession No. NC 004718
	279.	GenBank Accession No. NM 000043
	280.	GenBank Accession No. NM 000639
	*	GenBank Accession No. NM 001285
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	*	GenBank Accession No. NM 002737
	281.	GenBank Accession No. NM 003142
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	*	Genbank Accession No. NM 003376.1
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	*	GenBank Accession No. NM 005228
	*	GenBank Accession No. NM 005235
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	283.	GenBank Accession No. NM 031991.1
	284.	GenBank Accession No. S62220.1
	*	GenBank Accession No. S82227
	285.	GenBank Accession No. U01214.1

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AB	286.	GenBank Accession No. U16362.1
	287.	GenBank Accession No. U45476.1
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	*	GenBank Accession No. U86046
	288.	GenBank Accession No. U89019.1
	*	GenBank Accession No. X01087
	*	GenBank Accession No. X02316
	*	GenBank Accession No. X07203
	*	GenBank Accession No. X60667
	289.	GenBank Accession No. X61596.1
	290.	GenBank Accession No. X76918.1
	291.	GenBank Accession No. XM 002661.7
	*	GenBank Accession No. XM 015620
	292.	GenBank Accession No. XM 018021.2
	*	GenBank Accession No. XM 033884
	293.	GenBank Accession No. XM 042972.3
	*	GenBank Accession No. XM 067723
	294.	GenBank Accession No. Y11604.1
	295.	GenBank Accession No. Y12083.1
	296.	GenBank Accession No. Y13184.1
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AB	297.	Godwin et al., "The Synthesis of Biologically Active Pteroylolo- γ -L-Glutamates (Folic Acid Conjugates)," <i>The Journal of Biological Chemistry</i> 247:2266-2271 (1972)
	*	Gold et al., "Diversity of Oligonucleotide Functions," <i>Annu. Rev. Biochem.</i> 64:763-797 (1995)
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AB	*	Hamilton, et al., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants," <i>Science</i> , 286, 950-952 (1999))
	304.	Hammann et al., "Length Variation of Helix III in a Hammerhead Ribozyme and Its Influence on Cleavage Activity," <i>Antisense & Nucleic Acid Drug Development</i> 9:25-31 (1999)
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	305.	Hampel and Tritz, "RNA Catalytic Properties of the Minimum (-)sTRSV Sequence," <i>Biochemistry</i> 28:4929-4933 (1989)
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▼	309.	Haseloff and Gerlach, "Sequences required for self-catalysed cleavage of the satellite RNA of tobacco ringspot virus," <i>Gene</i> 82:43-52 (1989)

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AB	321.	Houghton et al., "Molecular Biology of the Hepatitis C Viruses: Implications for Diagnosis, Development and Control of Viral Disease," <u>Hepatology</u> 14(2):381-388 (1991)
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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 02-763-B (400/129)	Serial No. 10/667,271
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U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
AB	*	US 2003/0190635	07/25/02	McSwiggen et al.			10/09/03
AB	*	US 2003/0206887	09/16/02	Morrissey et al.			11/06/03

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							Yes	No
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	5.	00/21560	04/20/00	WO (Alitalo et al.)				
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	8.	02/10378	02/07/02	WO (Cowsert et al.)				
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